

Name _____

Module 2 - Sections 1 - 3 Review

ESTIMATE using nice fractions or the 10% method. **SHOW ALL WORK!**

1) 79% of 200

2) 67% of 120

3) 18% of 155

Find the **EXACT** answer by using a proportion or equation. **SHOW ALL WORK!**

4) What is 50% of 64?

5) 12 is what percent of 36?

6) What is 7% of 20?

Calculate the **percent of change**. **SHOW ALL WORK!**

7) Old price: \$75
New price: \$63

8) Old price: \$16
New price: \$28

9) Old price: \$150
New price: \$135

Probability

10) A bag contains 7 red marbles, 3 green marbles, and 6 blue marbles. What is the theoretical probability for the following:

- a) pulling a red marble on the first draw?
- b) pulling a green marble on the first draw?
- c) pulling a black marble on the first draw?

11) Two students pull marbles out of the bag 30 times. They pull a red marble 14 times, a green marble 8 times, and a blue marble 8 times. What is the experimental probability that they pulled a green marble?

12) Jalen is having dinner at Texas Roadhouse. He has the following menu choices to make: for an entrée he must select chicken, ribs, or steak; for a side he must select carrots, potatoes, or salad, and for desert he must select cake or pudding.

a) Draw a tree diagram to show all of the menu combinations possible.

b) What is the theoretical probability that Jalen will select chicken, carrots, and pudding?